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OM protein - protein search, using sw model

Run on:

April 12, 2005, 10:46:01; Search time 167 Seconds (without alignments) 30.107 Million cell updates/sec

US-09-674-616A-2 67

1 NQEQUSPYTLLKG 13 Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692 seqs, 386760381 residues Searched:

Total number of hits satisfying chosen parameters:

23870

seq length: 13 seq length: 13 Minimum DB E Maximum DB E

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A Geneseq 16Dec04:* .. Database

geneseqp1980s:*

geneseqp2002s:* geneseqp2003as:* geneseqp2003bs:* geneseqp1990s:* geneseqp2000s:* geneseqp2001s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:*

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ALIGNMENTS

Alpha-2 antiplasmin, fibrin stabilising enzyme, Factor XIIIa; cancer, embolism; thrombosis; inflammation; atherosclerosis; diagnosis. Alpha-2 antiplasmin enzyme derived peptide #2. Location/Qualifiers AAY67835 standard; peptide; 13 AA. (first entry) Misc-difference 5 Key Modified-site 25-APR-2000 Synthetic. AAY67835; AAY67835

ပံ /note= "Gly optionally forms a peptide bond with N-terminal Asn to form a cyclic peptide" /note= "Aan optionally forms a peptide bond with terminal Gly to form a cyclic peptide" 5. .13 /note= "Optionally D form residues" Modified-site

WO9960018-A1.

25-NOV-1999.

99WO-GB001550. 14-MAY-1999;

(AMSH) NYCOMED AMERSHAM PLC. 98EP-00303872 15-MAY-1998;

Champion S, Gibson A, Mendizabal M, Storey AE, Mendizak Wilson IA, Knox P;

B,

Guilbert

WPI; 2000-126380/11.

Novel synthetic analogues for diagnosis of thrombosis, embolism, atherosclerosis, inflammation or cancer.

Example 1; Page 16; 46pp; English.

This sequence represents an alpha-2 antiplasmin derived peptide. Alpha-2 antiplasmin is a substrate for the fibrin stabilising enzyme Factor XIIIa. Synthetic analogues of lysine and glutamine labelled with a

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Similarity
                               Query Match
Best Local Similarity
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          Sequence 13 AA;
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                                                                                                                                                                                                                                                                                                                                                                                               14-MAY-1999;
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Wilson IA,
                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                AAY67837;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel composition comprising a complex of radioisotope technetium (Tc) with an aza-diaminedioxime ligand. The composition of the invention may be useful in radiopharmaceuticals for mammalian administration, to be used in diagnostic imaging of thrombi. The composition comprises minimised amounts of lipophilic technetium complex species, thus improving the overall imaging characteristics. The composition does not form a disaferenemeric complex as it does not contain a chiral centre and hence does not require purification of the particular isomers. The current sequence is that of the radioisotope technetium (Tc) related alpha-antiplasmin mutant biological targeting peptide 2 of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                   /label= OTHER
/note= "OTHER = Optionally iodo-Tyr. Substituted wild-
                                                                                                                                                                                                                                                                                                                                                                                                    /label= OTHER
/note= "OTHER = Optionally attached to N-acetyl group<sup>|</sup>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Composition useful in radiopharmaceuticals for diagnostic imaging of thrombi comprises complex of radioisotope technetium with azadiaminedioxime ligand.
detectable moiety can also act as substrates for Factor XIIIa. The invention relates to compounds which can be used in the diagnosis of thrombosis or embolism and also for diagnosing atherosclerosis, inflammation or cancer. The peptide forms part of the compound
                                                                                                       Gaps
                                                                                                                                                                                                                                                                                              radioisotope technetium; Tc complex; aza-diaminedioxime ligand; radiopharmaceutical; thrombus diagnostic imaging; alpha-antiplasmin;
                                                                                                                                                                                                                                                                         Radioisotope technetium-related alpha-antiplasmin mutant peptide 2.
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                                                                                Length 13;
                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wadsworth HJ,
                                                                               100.0%; Score 67; DB 3; I
100.0%; Pred. No. 1.5e-05;
tive 0; Mismatches 0;
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12
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                                                                                                                                                                                                         ADP44607 standard; peptide; 13 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             type Leu-Thr-Leu"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-OCT-2003; 2003WO-GB004573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-OCT-2002; 2002GB-00024799
                                                                                                                                                                                                                                                      (first entry)
                                                                                                                             1 NOEQVSPYTLLKG 13
                                                                                                                                                    1 NOEOVSPYTLLKG 13
                                                                                            Best Local Similarity 100.
Matches 13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AMSH ) AMERSHAM PLC
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                                                           Sequence 13 AA;
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Unidentified
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                                                                                                                                                                                                                                  ADP44607;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alpha-2 antiplasmin; fibrin stabilising enzyme; Factor XIIIa; cancer; embolism; thrombosis; inflammation; atherosclerosis; diagnosis.
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                                                     Gaps
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100.0%; Score 67; DB 8; Length 13; 100.0%; Pred. No. 1.5e-05; rive 0; Mismatches 0; Indels
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92.3%; Pred. No. 5.6e-05;
tive 1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                         Alpha-2 antiplasmin enzyme derived peptide #4.
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                                                                                                                                                                                                                                                                               AAY67837 standard; peptide; 13 AA.
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                                                                                                           1 NOEQVSPYTLLKG 13
                                                                                                                                          1 NQEQVSPYTLLKG 13
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                                                          13; Conservative
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AAY67836
ID AAY6
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This sequence represents an alpha-2 antiplasmin derived peptide. Alpha-2 antiplasmin is a substrate for the fibrin stabilising enzyme Factor XIIIa. Synthetic analogues of lysine and glutamine labelled with a detectable moiety can also act as substrates for Factor XIIIa. The invention relates to compounds which can be used in the diagnosis of thrombosis or embolism and also for diagnosing atherosclerosis, inflammation or cancer. The peptide forms part of the compound
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                                                                                                                                                                                                                                                                                            Champion S, Gibson A,
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                'note= "D-form residue"
                                                /note= "D-form residue"
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/label= bAla
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Knox P;
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                                Misc-difference 12
Misc-difference 8
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                                                                  Modified-site
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Modified-site
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Wilson IA,
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                                                                                                                      Factor XIIIa; cancer;
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                                                                                                                     Alpha-2 antiplasmin; fibrin stabilising enzyme; Factor XIIIa; embolism; thrombosis; inflammation; atherosclerosis; diagnosis
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Pred. No. 0.00021;
0; Mismatches 1; Indels
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                                                                                    Alpha-2 antiplasmin enzyme derived peptide #3.
                                                                                                                                                                                                                                            /note= "N-terminal acetyl"
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                                                                                                                                                                                                         Location/Qualifiers
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Best Local Similarity 92.3
Matches 12; Conservative
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Modified-site
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Modified-site
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Wilson IA,
                                                                                                                                                                         Synthetic
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                  AAY67836;
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15-MAY-1998;

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This sequence represents an alpha-2 antiplasmin derived peptide. Alpha-2
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                                                                                                                                                                                                     AAY67840 standard; peptide; 13 AA.
                                                                   Example 2; Page 16; 46pp; English.
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           (AMSH ) NYCOMED AMERSHAM PLC
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                                                                                                                                           Local Similarity 92.3
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                                       WPI; 2000-126380/11.
                                                                                                                            Sequence 13 AA;
                                                                                                                                                                                                                                                                               Key
Modified-site
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                                                                                                                                                                                                                                                                                                                                        15-MAY-1998;
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                                                                                                                                                                                                                                                                                                                 25-NOV-1999
                                                                                                                                                                                                                                                                                                                                                              Storey AE,
Wilson IA,
                      Storey AE,
Wilson IA,
                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                 AAY67840;
                                                                                                                                       Query Match
                                                                                                                                                   Matches
                                                                                                                                                                                          RESULT 7
                                                                                                                                                                                                AAY67840
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This sequence represents an alpha-2 antiplasmin derived peptide. Alpha-2 antiplasmin is a substrate for the fibrin stabilising enzyme Factor XIIIa. Synthetic analogues of lysine and glutamine labelled with a detectable moiety can also act as substrates for Factor XIIIa. The invention relates to compounds which can be used in the diagnosis of thrombosis or embolism and also for diagnosing atherosclerosis, inflammation or cancer. The peptide forms part of the compound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alpha-2 antiplasmin; fibrin stabilising enzyme; Factor XIIIa; cancer; embolism; thrombosis; inflammation; atherosclerosis; diagnosis.
antiplasmin is a substrate for the fibrin stabilising enzyme Factor XIIIa. Synthetic analogues of lysine and glutamine labelled with a detectable moiety can also act as substrates for Factor XIIIa. The invention relates to compounds which can be used in the diagnosis of thrombosis or embolism and also for diagnosing atherosclerosis, inflammation or cancer. The peptide forms part of the compound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         68.7%; Score 46; DB 3; Length 13; 69.2%; Pred. No. 0.14; ive 0; Mismatches 4; Indels
                                                                                                                                                                       Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel synthetic analogues for diagnosis of thrombosis, atherosclerosis, inflammation or cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mendizabal M, Champion S, Gibson A, Knox P_i
                                                                                                                                                                         Score 59; DB 3; I
Pred. No. 0.00049;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Alpha-2 antiplasmin enzyme derived peptide #11.
                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2; Page 17; 46pp; English.
                                                                                                                                                                                                                                                                                                                                                                                AAY67844 standard; peptide; 13 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-GB001550.
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                                                                                                                                                                         88.1%;
92.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 69.2
Best Local Similarity 69.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 NOEQVSPYTLLKG 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                        1 NOEQUSPLTLEKG 13
                                                                                                                                                                                                                                                   1 NQEQVSPYTLLKG 13
                                                                                                                                                                           Query Match 88.1
Best Local Similarity 92.3
Matches 12; Conservative
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                                                                                                                                         Sequence 13 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .5-MAY-1998;
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Wilson IA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                   AAY67844
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                                                                                                                                                                                                                                                                                                                                             RESULT
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                                                                                                                                                                                                                                                                                       셤
             888888888
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                                                                                                                                                                                                                                                                    This sequence represents an alpha-2 antiplasmin derived peptide. Alpha-2 antiplasmin is a substrate for the fibrin stabilising enzyme Factor XIIIa. Synthetic analogues of lysine and glutamine labelled with a detectable moiety can also act as substrates for Factor XIIIa. The invention relates to compounds which can be used in the diagnosis of thrombosis or embolism and also for diagnosing atherosclerosis, inflammation or cancer. The peptide forms part of the compound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          embolism
                                                                                                                                                                               Novel synthetic analogues for diagnosis of thrombosis, embolism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alpha-2 antiplasmin; fibrin stabilising enzyme; Factor XIIIa; c
embolism; thrombosis; inflammation; atherosclerosis; diagnosis.
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                                                                                      Guilbert
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel synthetic analogues for diagnosis of thrombosis, atherosclerosis, inflammation or cancer.
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                                                                                        Gibson A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 3, L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alpha-2 antiplasmin enzyme derived peptide #7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "N-terminal acetyl"
                                                                                                                                                                                                      atherosclerosis, inflammation or cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Champion S,
                                                                                        Champion S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99WO-GB001550.
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                   98EP-00303872
                                                                                                                                                                                                                                                                                                                                                                                                                                                               88.1%;
92.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mendizabal M,
                                                                                      Mendizabal M,
Knox P;
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Guilbert B;

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Gaps

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us-09-674-616a-2.rag

Peptide Peptide

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The invention relates to a matrix comprising fibrin, a peptide which comprises a first domain comprising a Pactor XIII a substrate and a second domain comprising heparin or a heparin-like compound coupled to the first domain, and a heparin binding protein (HBP), where the peptide is covalently attached to the fibrin through the first domain. The matrix is used for controlled release of HBP, for enhanced wound healing in various tissues including vasculature, skin, nerve and liver. Heparin used in the matrix protects the growth factors from proteolytic degradation and prolong their activity until they are released from the matrix. Despite their relatively strong affinity for heparin, heparin binding growth factors dissociate from the matrix on a short time scale. Therefore, high excess of binding sites is essential to ensure that they do not diffuse far before they bind to the matrix again. This equilibrium also allows for the binding of free growth factor to cell surface controlled release proximity to the site of dissociation. This method of controlled release proximity to the site of dissociation. This method of controlled release proximity to the site of dissociation. This present sequence is a peptide used to make the matrix of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel matrix for controlled delivery of heparin binding protein has fibrin, peptide having first domain with Factor XIIIa substrate and second domain with heparin/heparin-like compound, and heparin binding
                                                     Factor XIIIa; fibrin matrix; heparin; heparin binding protein; HBP; wound healing; vasculature; skin; nerve; liver.
                                                                                                                                                                                                          /label= OTHER
/note= "Dansyl-leucine, used to allow detection by
fluorescence"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BIDG-) BIDGENOESSISCHE TECH HOCHSCHULE ZUERICH. (UYZU-) UNIV ZURICH.
                    Factor IIIa cleavage site-containing peptide #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              53.7%; Score 36; DB 6;
100.0%; Pred. No. 11;
ive 0; Mismatches (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sakiyama SE
                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADL46294 standard; peptide; 13 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2; Col 6; 17pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                              98US-00141153.
                                                                                                                                                                                                                                                                                                                                                                                    9-SEP-2000; 2000US-00675922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schense JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
7; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-155552/15.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 13 AA;
                                                                                                                                                                       Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                              27-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4ubbell JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-MAY-2004
                                                                                                                                                                                                                                                                                                                                            22-OCT-2002.
                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADL46294;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADL46294
ID ADL4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence is that of a fluorescent synthetic peptide, which has a Factor XIIIa substrate at the N-terminal end and a polylysine moiety at the C-terminus. The peptide is used to produce a heparin-peptide chimera by coupling to a heparin oligosaccharide, with a unique aldehyde group on one end, via reductive amination. A matrix is formed in which heparin is used to incorporate heparin-binding group for expair, regeneration, remodeling, and/or drug delivery. The invention provides biocompatible and biodegradable matrices incorporating bloactive proteins such as growth factors. The matrices on be formed in vitro or in vivo at the site of implantation, and provide controlled and/or sustained release of the bioactive protein
                                                                                                                                                                                Tissue engineering; tissue repair; tissue regeneration; drug delivery;
Factor XIIIa; heparin.
                                                                                                                                                                                                                                                                                                                                            note= "dansyl leucine, allows detection of peptide by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel growth factor modified protein matrix useful for tissue repair, regeneration and/or remodeling, and/or drug delivery.
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                                                                                                                                              substrate-polylysine peptide chimera.
                                                                                                                                                                                                                                                                                                                                                                                                                                 9. .13
/note= "heparin-binding peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (EIDG-) EIDGENOESSISCHE TECH HOCHSCHULE ZUERICH.
(HUBB/) HUBBELL J A.
                                                                                                                                                                                                                                                                                                                                                                                                          /note= "Factor XIIIa substrate"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .,
2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 36;
Pred. No.
                                                                                                                                                                                                                                                                                               Location/Qualifiers
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                 AAM50298 standard; peptide; 13 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3xample 2, Page 25, 51pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         53.7%; Scor
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-MAY-2000; 2000WO-US011947.
                                                                                                                                                                                                                                                                                                                                                                  fluorescence
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                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                 Key
Modified-site
                                                                                                      04-PEB-2002
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                                                                                                                                                                                                                                                       Synthetic
                                                              AAM50298
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Gaps

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Matches

RESULT 10

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ABG73917

Length 13; 0; Indels

Gaps

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WPI; 2003-865361/80.
                                            WO2003087353-A2.
                                                                         06-JUN-2002;
                                                                 09-APR-2002;
09-APR-2002;
                                                                      31-MAY-2002;
                                                                                 08-NOV-2002;
                                                                           01-AUG-2002;
                                                                                      24-DEC-2002;
                                                                                        26-DEC-2002;
                                                                                            27-DEC-2002;
                                                                                              27-DEC-2002;
                                                                                                 27-DEC-2002;
                                                                                                          30-DEC-2002;
                                                                                                   27-DEC-2002
                                                 23-OCT-2003
                                                                                                        27-DEC-2002
                                                                                                     27-DEC-2
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This invention describes a novel method for the diagnosis of a disease caused by, or associated with, an RNA molecule that has a frameshift mutation. The method is used to diagnose age-rolated disease, especially cancer and a wide range of neurodegenerative disorders (e.g. Alzheimer's disease, Down's syndrome, myotonic dystrophy, Huntington's disease, multiple scherosis, alcoholic liver disease, diabetes mellitus type II and many others listed) or susceptibility to these disorders. The method allows a definitive diagnosis of Alzheimer's disease in living patients, at an early stage. It is based on the observation that disease may be caused by mutations in RNA rather than DNA. The invention describes the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; beta-amyloid precursor protein; beta-APP; diagnosis; cancer; frameshift mutation; age-related disease; neurodegenerative disorder; Alzelaner's disease; bown's syndrome; myotonic dystrophy; neuronal; Huntington's disease; multiple sclerosis; alcoholic liver disease; disease; multiple sclerosis; alcoholic liver disease; ubiquitin B; apolipoprotein E; MAP2; neurofilament-L; neurofilament-M; neurofilament-Z; presentiln I; presentiln II; eurofilament-M; all fibrillary acidic protein; GRAP; p53; semaphorin III; HUPF-I; bcl-2; B-cell leukemia/lymphoma 2 proto-oncogene; HMGP-C; NSP-A; high mobility group protein-C; neuroendocrine specific protein A.
design modulators of (I), potential therapeutic agents for treating diseases caused by the specified bacteria. This sequence represents an epitope from one of the proteins of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Diagnosing disease by detecting frameshift mutations in RNA or corresponding protein mutations - used to diagnose cancer and neurological diseases, particularly Alzheimer's disease, and also treatment and prevention with specific ribozymes or wild-type RNA.
                                                                                                                                                     Score 28; DB 7; Length 13;
Pred. No. 3.5e+02;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human presenilin II mutant protein fragment 39.
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UNIV ROTTERDAM ERASMUS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY20946 standard; protein; 13 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98WO-IB000705.
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                                                                                                                                                             41.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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                                                                                                                                                                                   Similarity 62.5
5; Conservative
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VAPYELVK 12
                                                                                                                                                                                                                                                                   5 VSPYTLLK 12
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                                                                                                        Sequence 13 AA;
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                                                                                                                                                             Query Match
Best Local S
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                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to isolated, recombinant polypeptides (I) that have at least one activity of specified bacterial enzymes involved in cell membrane biogenesis. (I) are: UDP-N-acetylglucosamine 1-carboxyvinyl transferase-1 of Streptococcus pneumoniae (S.g.), Pseudomonas aeruginosa (P.a.) or Staphylococcus aureus (S.a.); CTP:CMP-3-deoxy-D-manno-CC cetulosonate transferase of Escherichia coli (E.c.) or Haemophilus influenzae (H.i.); UDP-N-acetylmuramylalnyl-D-glutamate-2,6-diaminopimelate ligase of P.a.; D-alanine.D-alanine adding enzyme of S.a. or P.a.; D-alanine-D-alanine educase of P.a. or H.i.; UDP-N-cetylmuramylalnyl-D-glutamate-1, UDP-N-cetylmuramoylalanine-D-glutamate ligase of F.f., H.i. or S.a.; UDP-N-cetylmuramoylalanine-D-glutamate ligase of E.f. or H.i.; DP-N-cetylmuramoylalanine-D-glutamate ligase of E.f., and aspartate semialdehyde cetylmuramate-alanine ligase of E.c.; and aspartate semialdehyde cetylmuramate-alanine ligase of E.c.; and aspartate semialdehyde (H.i. or S.a.); UDP-N-cetylmuramoylalanyl-D-glutamate (sic) of H.i. Crystalline (I) are used to determine (by X-ray diffraction analysis) the structural coordinates of (I), and these then used to
                                                                                                                                                                                                                                  UDP-N-accetylglucosamine pyrophosphorylase;
UDP-N-accetylmuramoylalanine-D-glutamate ligase;
DP-N-accetylmuramate:alanine ligase; aspartate semialdehyde dehydrogenase;
UDP-N-acctylmuramoylalanyl-D-glutamate; X-ray diffraction analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New recombinant bacterial enzymes involved in cell membrane biogenesis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Domagala M, Houston S, Awrey D;
Vallee F, Richards D, Nethery K;
Alam MZ, Tai M, Canadien V;
                                                                                                                            CTP:CMP-3-deoxy-D-manno-octulosonate transferase;

DP-N-acetyImuranylalanyl-D-glutanate-2-6-diaminopimelate ligase;
D-alanine-D-alanine adding enzyme; D-alanine-D-alanine ligase;
UDP-N-acetyIpuyruvoylglucosamine reductase;
                        UDP-N-acetylglucosamine 1-carboxyvinyl transferase-1 epitope #3
                                                                                                        UDP-N-acetylglucosamine 1-carboxyvinyl transferase-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      useful for designing potential antibacterial agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 12; 407pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Edwards A, Dharamsi A, Vedadi M, Beattie B, Mansoury K, Ouyang H, Virag C, Buzadzija K, Pinder B, Kanagarajah D, Thalakada R;
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2002US-0400348P.
2002US-0424395P.
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2002US-0436345P.
2002US-0436349P.
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2002US-0371107P.
2002US-0371185P.
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                                                                                                                                                                                                                                                                                                                                                                                                  Streptococcus pneumoniae.
                                                                          antibacterial;
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used of neuronal system RNA molecules, specifically proteins including beta-amyloid precursor protein (beta-APP), the microtubule associated proteins Tau and Big Tau, ubiquitin B, apolipoprotein E, microtubule associated protein 2 (MAP2), neurofilament-L, neurofilament-E, neurofilament-E, presentlin I, presentlin II, glial fibrillary acidic protein (GAPA), the cellular tumour antigen pS3, B-cell leukemia/lymphoma 2 (bcl-2) proto-oncogene, semaphorin III, HUPP-1, high mobility group protein-C (HMGP-C) and neuroendocrine specific protein A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention describes a novel method for the diagnosis of a disease caused by, or associated with, an RNA molecule that has a frameshift mutation. The method is used to diagnose age-related diseases, especially cancer and a wide range of neurodegenerative disorders (e.g. Alzheimer's disease, Down's syndrome, myotonic dystrophy, Huntington's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; beta-amyloid precursor protein; beta-APP; diagnosis; cancer; frameshift mutation; age-related disease; neurodegenerative disorder; Alzheimer; disease; Down's syndrome; myotonic dystrophy; neuronal; Huntington's disease; multiple sclerosis; alcoholic liver disease; diabetes mellitus type II; microtubule associated protein; Tau; Big Tau; ubiquitin B; apolipoprotein B; MAP2; neurofilament-L; neurofilament-F; presenilin I; presenilin II; cellular tumour antigen; glial fibrillary acidic protein; GFAP; p53; semaphorin III; HUPF-I; bc1-2; B-cell leukemia/lymphoma 2 proto-oncogene; HMGP-C; NSP-A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diagnosing disease by detecting frameshift mutations in RNA or corresponding protein mutations - used to diagnose cancer and neurological diseases, particularly Alzheimer's disease, and also for
                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treatment and prevention with specific ribozymes or wild-type RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    high mobility group protein-C; neuroendocrine specific protein A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human microtubule associated protein 2 mutant fragment 116.
                                                                                                                                                                                                             Score 27; DB 2; Length 13; pred. No. 5.4e+02; 4; Mismatches 1; Indels
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UNIV ROTTERDAM ERASMUS.
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY20420 standard; protein; 13 AA
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                                                                                                                                                                                                                                 44.48;
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                                                                                                                                                                                                                 40.3%;
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                                                                                                                                                                                                                                                        4; Conservative
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4 RREMSPYSL 12
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                                                                                                                                                                                                                                 Best Local Similarity
Matches 4, Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; AAX75757
                                                                                                                                                                           Sequence 13 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAY20420;
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and many others listed) or susceptibility to these disorders. The method allows a definitive diagnosis of Alzheimer's disease in living partients, at an early stage. It is based on the Observation that disease may be caused by mutations in RNA rather than DNA. The invention describes the used of neuronal system RNA molecules, specifically proteins including beta-amyloid precursor protein (beta-APP), the microtubule associated proteins and B19 Tau, ubiquitin B, apolipoprotein E, microtubule associated protein 2 (MAP2), neurofilament-L, neurofilament-M, neurofilament-M, the cellular tumour antigen p53, B-cell leukemiallymphoma 2 (bcl-2) protein-GRAP), the cellular tumour antigen p53, B-cell leukemiallymphoma protein-C (HMGP-C) and neuroendocrine specific protein A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA encoding allergenic proteins and peptide(8) from Johnson grass pollen allergen SorhI - for diagnosing, treating and preventing allergy to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The sequence is that of a SorhI Group I grass pollen allergen T cell epitope corresp. to residues 91-105 of SorhI clone 3S. See also AARS4949-76. (Updated on 25-MAR-2003 to correct PN field.)
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                                                                                                                                                                                                                                                    Length 13;
                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                  38.8%; Score 26; DB 2; 56.7%; Pred. No. 8.3e+02; iive 2; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SorhI grass pollen allergen T cell epitope.
                                                                                                                                                                                                                                                                                                                                                                                                                         AAR54972 standard; peptide; 13 AA.
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31-OCT-1994. (first entry)
                                                                                                                                                                                                                                                                   Similarity 66.74; Conservative
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Peptides AAW38005-08 are the sequences of WW domain binding clones obtained by screening random or biased libraries with the WW domains of obtained by screening random or biased libraries with the WW domains of the novel WWP proteins. The present peptide was obtained after screening with ww domain 1 of WWP1 (WWP1.1). The peptides are peptide recognition units ("liganda"), and are used for analysing specificities of the WW domains is a small functional domain. Its name is derived from the observation that two tryptophan residues, one in the amino cerminal portion of the WW domain and one in the carboxyl terminal cortion, are conserved. Most proteins containing WW domains have a function involving cell signalling and growth regulation or the organisation of the cytoskeleton. Polypeptides containing a WW domain are identified by treating a multivalent recognition unit complex that has selective binding affinity for a WW domain, with many polypeptides and identifying those with selective affinity for the complex. Proteins containing WW domains are used for targeted drug screening, i.e. to identify potential modulators of specific WW domain interactions. The SEQ ID listing differs from sequence given in figure. The SEQ ID sequence is as follows: GPSEOPPPYEXTVK
                                                                                                                                                                Peptide recognition unit; WW domain; cell signalling; growth regulation; cytoskeleton organisation; targeted drug screening; modulator; WW domain interaction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying cell signalling and growth regulatory polypeptides by reaction with multivalent recognition complex - polypeptides are useful in targetted drug selection.
                                                                                                                                    WW domain binding clone 4 obtained from a pp library.
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Best Local Similarity 50.0%; Pred. No. 1.3e+03;
Matches 5; Conservative 1; Mismatches 4;
                                                                                                                                                                                                                                                                                       Location/Qualifiers 6. .9 /note= "PPPPY motif"
                        AAW38008 standard; peptide; 13 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pirozzi G, Kay BK, Fowlkes DM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYNC-) UNIV NORTH CAROLINA.
                                                                                                  23-APR-1998 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1997-503234/46.
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                                                                                                                                                                                                                                                                                                                                                                       WO9737223-A1
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                                                                                                                                                                                                                                                         Synthetic
                                                              AAW38008;
                                                                                                                                                                                                                                                                                                                 Region
AAW38008
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Gaps ö

Length 13; 4; Indels

Search completed: April 12, 2005, 10:48:58 Job time : 169 8ecs

GenCore version Copyright (c) 1993 - 2005

protein search, using sw model

OM protein -

Run on:

Sequence US-09-636-596C-52 US-08-686-52 US-08-068-947-28 US-08-469-005A-13 US-08-471-03-11 US-08-471-044-11 US-08-471-044-11 US-08-471-046A-11 US-08-471-046A-11 US-08-469-007-7 US-08-469-007-7 US-08-469-007-7 US-08-469-007-7 US-08-469-007-7 US-08-469-007-7 US-08-469-007-7 US-08-469-007-7 US-08-68-0916A-58 US-08-68-0916A-58 US-08-88-1094-42 ALIGNMENTS April 12, 2005, 10:46:01 ; Search time 40 Seconds (without alignments) 24.261 Million cell updates/sec 7164 5.1.6 Compugen Ltd.

Appli Appli Appli Appli Appli Appli Appli Appli Appli Appli

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Factor XIIa at OTHER INFORMATION: N-terminus and modified peptide from the OTHER INFORMATION: heparin-binding domain of AIII
NAME/KEY: MOD RES
LOCATION: (1) Gaps APPLICANT: Hubbell.

APPLICANT: Hubbell.

APPLICANT: Schense C., Jason

TITLE OF INVENTION: Enzyme-Mediated Modification of Fibrin for Tissue

TITLE OF INVENTION: Engineering: Incorporation of Proteins

FILE REFERENCE: ETH 107 DIV

CURRENT APPLICATION NUMBER: US/09/675,922

CURRENT FILING DATE: 2000-09-29

NUMBER OF SEQ ID NOS: 28

SOFTWARE: Patentin Ver. 2.1 ö 53.7%; Score 36; DB 4; Length 13; 100.0%; Pred. No. 1.9; ive 0; Mismatches 0; Indels US-09-675-922-1 ; Sequence 1, Application US/09675922 ; Patent No. 6460731 ; GENERAL INFORMATION: ; OTHER INFORMATION: dansyl leucine US-09-675-922-1 TYPE: PRT ORGANISM: Artificial Sequence Conservative Similarity 7; Conserv 1 NOEQVSP Query Match Best Local S

NOEOVSP N RESULT 2 ઠ qq

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US-08-174-467-6

Sequence 6, Application US/08174467

Patent No. 5451514

GENERAL INFORMATION:

APPLICANT: BOUDET, ALAIN M.

APPLICANT: INZE, DIRK G.

APPLICANT: SCHUCH, WOLFGANG W.

TITLE OF INVENTION: MOLFGANG W.

TITLE OF INVENTION: PLANTS

TITLE OF INVENTION: PLANTS NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: CUSHMAN, I

CUSHMAN, DARBY & CUSHMAN

BLOSUM62 Gapop 10.0 , Gapext 0.5 1 NQEQUSPYTLLKG 13 US-09-674-616A-2 67

Title: Perfect score:

Sequence:

Scoring table:

Searched:

513545 segs, 74649064 residues

Total number of hits satisfying chosen parameters:

length: 13 length: 13 seq seq 88 Minimum I Maximum I Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Issued_Patents AA:*

1: /cgn2_6/prodatea1/iaa/5A_COMB.pep:*

1: /cgn2_6/prodatea1/iaa/5B_COMB.pep:*

3: /cgn2_6/prodatea1/iaa/6A_COMB.pep:*

4: /cgn2_6/prodatea1/iaa/6B_COMB.pep:*

5: /cgn2_6/prodatea1/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/prodatea1/iaa/PCTUS_COMB.pep:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	ence 1,	ģ	ý,	'n	7,	69	14,	15,	Sequence 22, Appl	11,	11,	Sequence 19, Appl	19,	8	21,	6, 1	86,	142,	7, A	52,	52,	29,	30,	m	52,	52, 7	142,
SUMMARIES	σī	US-09-675-922-1	US-08-174-467-6	US-08-452-071-6	US-08-620-213-3	US-08-542-686-1	US-08-332-562A-69	US-08-068-947-14	US-08-068-947-15	US-08-750-419A-22	US-09-468-578-11	US-09-868-839-11	US-09-811-672-19	US-08-068-947-19	US-09-040-216-8	US-08-068-947-21	US-08-630-916A-6	US-08-630-916A-86	US-08-630-915A-142	US-09-297-369A-7	US-09-635-872A-52	US-09-636-077A-52	US-09-543-608A-29	US-09-543-608A-30	US-09-543-608A-31	US-09-636-060C-52	US-09-986-552-52	US-09-879-957-142
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	Query Match Length DB	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
عد	Query Match	ص	35.8	35.8	34.3	34.3	34.3	32.8	32.8	32.8	32.8	32.8		31.3	30.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9		29.9		29.9	29.9
	Score	36	24	24	23	23	23	22	22	22	22	22	22	21	20.5	20	20	20	20	20	20	20	20	20	20	20	20	20
	Result No.	1	7	e	4	ហ	y	7	æ	σ.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

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LENGTH: 13 amino acids
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Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , MOLECULE TYPE: peptide US-08-620-213-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          :||||
5 LSPYT 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: COUNTRY:
                                                                                                                                                                                                                                                                                             US-08-452-071-6
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Sequence No. 6066780
GENERAL INFORMATION:
APPLICANT: BOUDET, ALAIN M.
APPLICANT: SCHUCH, WOLFGANG W.
TITLE OF INVENTION: MODIFICATION OF LIGNIN SYNTHESIS IN TITLE OF INVENTION: PLANTS
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
                                                                               COMPUTER LOSA

ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
SUFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 07/874,166
FILING DATE: 27-APR-1992
ATTORNEY AGENT INFORMATION:
NAME: KOKULIS, PAUL N.
REGISTRATION NUMBER: 95563/PS36321/US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-661.3000
TELEPHONE: 202-661.3000
TELEPHONE: 202-661.3000
TELEPHONE: 202-661.3000
TELEPHONE: 202-61.3000
TELEPHONE: 202-61.3000
TELEPHONE: 202-61.3000
TELEPHONE: 202-61.3000
TELEPHONE: APPLICATION INFORMATION:
SEQUENCE CHARACTERICATICS:
LENGTH 13 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/452,071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . 3.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 35.8%; Score 24; DB 1;
Best Local Similarity 80.0%; Pred. No. 3.8e+02
Matches 4; Conservative 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: CUSHMAN, DARBY & CUSHMAN STREET: 1100 NEW YORK AVENUE, N.W. CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CIASSIFTCATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/874,166
FILING DATE: 27-APR-1992
ATTORNEY/AGENT INFORMATION:
STREET: 1100 NEW YORK AVENUE, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
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STRANDEDNESS: si
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                            WASHINGTON
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US-08-452-071-6
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REFERENCION WINDER: 16,573,
PREFERENCION WORKER: 10,573,
PREFERENCION WORK
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34.3%; Score 23; DB 2; Length 13; 50.0%; Pred. No. 6e+02;
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US-08-068-947-14

Sequence 14, Application US/08068947

Patent No. 5470753

GENERAL INFORMATION:
APPLICANT: Sepetov, Nikolai
APPLICANT: Lesakova, Olga
APPLICANT: Lebl, Wichal
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
MUMBER OF SEQUENCES:
ADDRESSEE: Pennie & Edmondr
STREET: 1155 *****
CTTTV
CTTTV
                                                                                                                                                                                                                                   COUNTEY.

COUNTEY.

SIP: 20007-5109

COMPUTER READBLE FORM:

MEDIUW TYPE: Flogpy disk

COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/332,562A

FILING DATE: 31-OCT-1994

CLASSIFICATION: 435

PRIOR APPLICATION TATE:

ATTORNEY AGENT INFORMATION:

NAME: BENT: Stephen A.

REGISTRATION NUMBER: 29,768

REGISTRATION NUMBER: 29,768

REGISTRATION NUMBER: 29,768
            APPLICANT: HIBBS, Margaret L.
APPLICANT: SCOTT, Bernadette M.
APPLICANT: SCOTT, Bernadette M.
APPLICANT: BONADONNA, Lisa
APPLICANT: HULETT, Mark D.
TITLE OF INVENTION: FC RECEPTOR FOR IMMUNOGLOBULIN
NUMBER OF SEQUENCES: 136
ADDRESSEE: Foley & Lardner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 54270/119/GRHA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                         E: Foley & Lardner
3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-332-562A-69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 EQVSPYTLLK 12
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Best Local Similarity
                                                                                                                                                                                                    CITY: Washington
                                                                                                                                                                                                                         STATE: D.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                   STREET:
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                                                           Gaps
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                                                                                                                                                                                             RESULT 5
US-08-542-686-1
; Sequence 1, Application US/08542686
; Patent No. 5824487
; GENERAL INFORMATION:
    APPLICANT: Ravecch, Jeffrey V.
    APPLICANT: Ravecch, Jeffrey V.
    TITLE OF INVENTION: METHOD FOR SCREENING FOR TARGETS FOR
    TITLE OF INVENTION: ANTI-INFLAMMATORY OR ANTI-ALLERGIC AGENTS
    NUMBER OF SEQUENCES: 9
    CORRESPONDENCE ADDRESS: 3
    STREET: 30 Rockefeller Plaza
    CITY: New York
    STATE: New York
    COUNTRY: USA
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                34.3%; Score 23; DB 1; Length 13; 62.5%; Pred. No. 6e+02; Arive 0; Mismatches 3; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
ODERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/542,686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 23; DB 2;
Pred. No. 6e+02;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/052,269
FILING DATE: 23-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: White, John J.
REGISTRATION NUMBER: 28,678
FELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-332-562A-69
; Sequence 69, Application US/08332562A
; Betent No. 5985599
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: MCKENZIE, Ian F.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           34.3%;
50.0%;
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TELEX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
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                                                                                                   3 EQVSPYTL 10
                                                                                                                                         EHVVPYGL 12
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Best Local Similarity
Local 5; Conserve
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STRANDEDNESS: Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ANTI-SENSE: NO
US-08-542-686-1
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0; Gaps

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Sequence 22, Application US/08750419A
Patent No. 6008340
GENERAL INFORMATION:
APPLICANT: BALL, TANJA
APPLICANT: VATALA, SUSANNE
APPLICANT: VALENT, PETER
APPLICANT: SUSANI, MARKUS
APPLICANT: SUSANI, MARKUS
APPLICANT: KRAFT, DIETRICH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    not relevant
                                                                                                                                                                 32.8%;
                                                                                                                        Query Match
Best Local Similarity 50.v
---- 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: VALENT, PETER
APPLICANT: SUSANI, MARKA
APPLICANT: SUSANI, MARKA
APPLICANT: LAFFER, SYLVJ
TITLE OF INVENTION: CORT
TITLE OF INVENTION: CONT
TITLE OF INVENTION: CONT
TITLE OF INVENTION: USER
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
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                               , MOLECULE TYPE: peptide US-08-068-947-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
unknown
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1 EPIAPY 6
                                                                                                                                                                                                                                                                                                                                          2 QEQVSP 7
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2 QDQIQP 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
STREET: PO
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US-08-750-419A-22
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US-09-468-578-11
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US-08-068-947-15
Sequence 15, Application US/08068947
Patent No. 5470753
GENERAL INFORMATION:
APPLICANT: Sepetov, Nikolai
APPLICANT: Lisakova, Olga
APPLICANT: Krchnak, Viktor
APPLICANT: Krchnak, Viktor
APPLICANT: Eabl, Michal
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: SPECTROMETRY
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA

ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYBE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: 1930628
FILING DATE: 1930628
FILING DATE: 1930628
TLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: Misrock Esq. S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7156-040-999
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFRA: 212-869-8864/9741
TELEFRA: 6644 PERNIE
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
TENGRAPH TO A DESCRIPTION:
THOSPHATION FOR SEQ ID NO: 15:
THOSPHATIO
                                   OFFRAING STSIEM:
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/068,947
FILING DATE: 1993058
CLASSIFICATION: 436
ATTONREY/AGENT INFORMATION:
NAME: MISTOCK ESG., S. Leelie
REGISTRATION NUMBER: 18,872
REFREENCE/DOCKET NUMBER: 18,872
REFREENCE/DOCKET NUMBER: 18,872
REFREENCE/DOCKET NUMBER: 12,8699
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION STSIEMS
TELECOMMUNICATION S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32.8%; Score 22; DB 1; 342.9%; Pred. No. 9.3e+02; tive 2; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                 PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 32.8
Best Local Similarity 42.9
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               , MOLECULE TYPE: peptide US-08-068-947-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unknown
             OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 NOEQVSP 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | :|: |
1 NADQIQP 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
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CECOMBINANT ALLERGEN, FRAGMENTS THEREOF,
CORRESPONDING RECOMBINANT DNA MOLECULES, VECTORS AND HOS:
CONTAINING THE DNA MOLECULES, DIAGNOSTIC AND THERAPEUTIC
USES OF SAID ALLERGENS AND FRAGMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
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                                         Gaps
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Length 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CILL.
STATE: VA
COUNTRY: USA
COUNTRY: USA
ZIP: 22040-0747
COMPTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTE: IBM PC compatible
COMPUTE: IBM PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/750,419A
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: MIRRHY AF, GERALD M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1614-175
TELEPHONE: (703) 205-8050
TELEPHONE: (703) 205-8050
TELEPHONE: (703) 205-8050
TELEPHONE: (703) 205-8050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEE: BIRCH, STEWART, KOLASCH AND BIRCH: PO BOX 747
FALLS CHURCH
  Score 22; DB 1; I
Pred. No. 9.3e+02;
2; Mismatches 1;
```

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APPLICANT: LAFFER, Sylvia
TITLE OF INVENTION: RECOMBINANT ALLERGEN, FRAGMENTS THEREOF, CORRESPONDING RECOMBINANT
TITLE OF INVENTION: MCLECULES, VECTORS AND HOSTS CONTAINING THE DNA MOLECULES, DIAGNOTILE OF INVENTION: MCLECULES, VECTORS AND HOSTS CONTAINING THE DNA MOLECULES, DIAGNOTILE REFERENCE: 1614-0247P
FILE REFERENCE: 1614-0247P
CURRENT APPLICATION NUMBER: US/09/811,672
CURRENT FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PALCHLIN VERSION 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31.3%; Score 21; DB 1; Length 13; 42.9%; Pred. No. 1.5e+03; tive 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32.8%; Score 22; DB 4; Length 13; 50.0%; Pred. No. 9.3e+02; tive 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19, Application US/08068947
Fatent No. 5470753
GENERAL INFORMATION:
APPLICANT: Sepetov, Nikolai
APPLICANT: Krchnak, Viktor
APPLICANT: Lebl, Michal
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: SPECTROMETRY
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPTER: IBM PC compatible
CORERATIOG SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/068,947
FILING DATE: 19930528
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: MISTOCK ESG., S. Leelie
REGISTRATION NUMBER: 18,872
REFERENCE/POCKET NUMBER: 18,872
REGISTRATION INFORMATION:
TELECOMMULICATION INFORMATION:
TELECOMMULICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 50.0
Bernan 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 13 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 42.9
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
, ORGANISM: Timothy Grass
US-09-811-672-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS: unkrown
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1 EPIAPY 6
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LENGTH: 13
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| Sequence 11, Application US/09868839 |
| Batent No. 650930 |
| GENERAL INFORMATION: |
| APPLICANT: UNILEVER N.V. et al. |
| TITLE OF INVENTION: DETERGENT COMPOSITIONS COMPRISING PHENOL OXIDIZING |
| TITLE OF INVENTION: BETSKEST |
| TITLE OF INVENTION: BUSYMES: US/09/868,839 |
| CURRENT PELLOR NUMBER: US/09/868,839 |
| CURRENT PILLING DATE: 2001-06-12 |
| PRIOR FILING DATE: 1998-12-23 |
| PRIOR FILING DATE: 1998-12-3 |
| PRIOR FILING DATE: 1998-16-23 |
| PRIOR FILING DATE: 1998-12-3 |
| PRIOR FILING DATE: 1998-12-3 |
| PRIOR FILING DATE: 1998-12-3 |
| SEQ ID NOS: 17 |
| SEQ ID NO 11 |
| LENGTH: 13 |
| LENGTH: 14 |
| LENGTH: 15 |
| LENGTH: 
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80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32.8%; Score 22; DB 3; 1
80.0%; Pred. No. 9.3e+02;
tive 0; Mismatches 1.
                                                                          GRNEAGL INFORMATION:

APPLICANT: Wang, Huaming
APPLICANT: Bodie, Elizabeth A.

TITLE OF INVENTION: Phenol Oxidizing Enzymes
FILE REFERENCE: GC561-3
CURRENT APPLICATION NUMBER: US/09/468,578
CURRENT FILING DATE: 1999-12-21
PRIOR APPLICATION NUMBER: US 09/320,871
PRIOR APPLICATION NUMBER: US 09/338,723
PRIOR APPLICATION NUMBER: US 09/338,723
PRIOR FILING DATE: 1999-06-23
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FABETSEQ for Windows Version 4.0
SEQ ID NO 11
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19, Application US/09811672
Patent No. 6559120
GENERAL INFORMATION:
APPLICANT: BALL, Tanja
APPLICANT: VRTALA, Susanne
APPLICANT: VRTRIA, SUSANNE
APPLICANT: VALENT, Peter
APPLICANT: SUSANI, Markus
APPLICANT: KRAFT, Dietrich
Sequence 11, Application US/09468578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: PRT
; ORGANISM: Stachybotrys chartarum
US-09-468-578-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: Stachybotrys chartarum US-09-868-839-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 32.8
Best Local Similarity 80.0
Matches 4; Conservative
                                                                GENERAL INFORMATION:
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                                                                                                                                                                                                                                              APPLICANT: COOPERAN, ET AL., BARRY
TITLE OF INVENTION: PEPTIDES, PEPTIDOMIMETICS, AND OTHER
TITLE OF INVENTION: SMALL MUSICULES USBFUL. FOR INHIBITING THE ACTIVITY OF
TITLE OF INVENTION: SMALL MUSICULES USBFUL. FOR INHIBITING THE ACTIVITY OF
TITLE OF INVENTION: RIBONUCLECTIDE REDUCTASE
FILE REFREENCE: 9596-63U1
CURRENT APPLICATION NUMBER: 05/09/040,216
CURRENT FILING DATE: 1997-08-28
EARLIER PEPLICATION NUMBER: 08/919,748
EARLIER PILING DATE: 1997-08-28
EARLIER PILING DATE: 1996-08-30
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PATCHIN Ver: 2.0
SEQ ID NOS: 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Sepetov, Nikolai
APPLICANT: Sepetov, Nikolai
APPLICANT: Sepetov, Olga
APPLICANT: Estonak, Viktor
APPLICANT: Ectonak, Viktor
APPLICANT: Ectonak, Viktor
APPLICANT: Ectonak, Viktor
APPLICANT: Lebl, Michal
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
TITLE OF INVENTION: PERTIPES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ) OTHER INFORMATION: alpha 13 helix region of E. coli R1 US-09-040-216-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/068,947
FILING DATE: 19930528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
30.6%; Score 20.5; DB 3;
Best Local Similarity 85.7%; Pred. No. 1.8e+03;
Matches 6; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Wisrock Esg., S. Leelie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7156-040-999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIF: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-068-947-21; Sequence 21, Application US/08068947; Patent No. 5470753; GENERAL INFORMATION:
                                                                                                                                                                  Sequence 8, Application US/09040216 Patent No. 6030942 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Escherichia coli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 YT-LLKG 13
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5 YTRLLKG 11
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CLASSIFICATION:
                           |: |: |
NEGQIQP 7
NOEQVSP 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
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                                                                                                                                                     JS-09-040-216-8
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:

April 12, 2005, 10:49:51 ; Search time 129 Seconds (without alignments) 33.457 Million cell updates/sec

US-09-674-616A-2 67 Title: Perfect score:

1 NQEQVSPYTLLKG 13 Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1418010 segs, 331997259 residues Searched:

13198 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 13 Maximum DB seq length: 13

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

/ cgn2_6/ptodata/1/pubpa/03094_PUBCOMB.ppp: *
/ cgn2_6/ptodata/1/pubpa/03094_PUBCOMB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/03094_PUBCOMB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0309_NEW_PUB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/03104_PUBCOMB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0310_NEW_PUB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0311_NEW_PUB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0311_NEW_PUB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0310_NEW_PUB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0360_NEW_PUB.ppp: *
/ cgn2_6/ptodata/1/pubpaa/0360_NEW_PUB.ppp: *

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Sequence 22, Appl	-	Sequence 156, App	64,	Sequence 197, App	87,	Sequence 88, Appl	Sequence 782, App	•	Sequence 805, App.	-	Sequence 824, App	
	QI	US-10-323-046-22	US-09-932-613-156	US-09-932-322-156	US-10-361-208-64	US-10-361-208-197	US-10-851-637-87	US-10-851-637-88	US-10-226-007-782	US-10-226-007-794	US-10-226-007-805	US-10-226-007-815	US-10-226-007-824	US-10-226-007-832
		14	10	10		15	11	17	14		14	14	14	14
	Query Match Length DB	13	13	13	13	13	13	13	13	13	13	13	13	13
æ	Query Match	53.7	35.8	35.8	35.8	35.8	35.8	35.8	34.3	34.3	34.3	34.3	34.3	34.3
	Score	36	24	24	24	24	24	24	23	23	23	23	23	23
	Result No.	-	7	m	4	Ŋ	9	7	œ	σ	10	11	12	13

Sequence 20, Appl	7, A	ä	œ	'n	9		594,	11, /	Sequence 78, Appl	141,	191,	241,	e 22, A	162,	19,	Sequence 13, Appl	12,	57, Ap	1016,	1029,	1042,	1055	1068,	23, Ag	1786	1787,	1788,	1789,	1790,	14, A	129,
Seg	Seguence	Sequence	Sequence	Sequence	Seg	Seg	Seg	Seq	Seg	Seq	Seq	Sed	Seq	Seg	Seg	Seg	Sed	Seq						Seq			6 0	o.	0	Seg	Seq
US-10-412-897-20	-723	-67	7	-791-378-594	-09-791-393-156	9-791-389-156	9-791-377-594	0-080-210	0-153-244-78	0-15	0-15	0-153-244-241	0-161-660-22	0-285-394-162	0-311-509-19	9-993-180-13	0	ò	0-226-007-1016	0-226-007-1029	0-226-007	0-226-007-1055	0-226-007-1068	0-0	0-224-999A-178	0-224-999A-1	0-224-999A-178	0-224-999A-178	0-224-999	0-298-461	0-285-394-129
15 US-1			9 US-09-946	ns-	ns	10 US-09	11 US-0		14 US-1			14 US-1	14 US-1	15 US-1	16 US-1		14 US-1	14 US-1	14 US-1	14 US-1		14 US-1	14 US-1	14 US-1	14 US-1		14 US-1	14 US-1	us-	-sn	15 US-1
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
34.3																													31.3		31.3
23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

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Sequence 22, Application US/10323046

Publication No. US20030187232A1

GENERAL INFORMATION:

APPLICANT: Hubbell, Jeffrey A

TITLE OF INVENTION:

TITLE OF INVENTION: Engineering

FILE REPERENCE: ETH 107 CIP (2)

CURRENT APPLICATION NUMBER: US/10/323,046

CURRENT APPLICATION NUMBER: 09/141,153

PRIOR FILING DATE: 1998-08-27

NUMBER OF SEQ ID NOS: 43

SEQ ID NO 22

LEGGTH: 13

LEGGTH: 13

LEGGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Description of Artificial Sequence: Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; LOCATION: (1) ; OTHER INFORMATION: dansyl Leucine US-10-323-046-22
                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
NAME/KEY: MOD_RES
LOCATION: (1)
US-10-323-046-22
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53.7%; Score 36; DB 14; Length 13; 100.0%; Pred. No. 8.3; ive 0; Mismatches 0; Indels Query Match
Best Local Similarity 100.
Matches 7; Conservative 1 NOEQVSP 7 ò

2 NOEOVSP

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Gaps

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Gaps
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83.3%; Pred. No. 1.5e+03;
tive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 197, Application US/10361208

Publication No. US20040009167A1

GRENEAL INPORMATION:
APPLICANT: Rider, Todd H.
TILLE OF INVENTION: ANTI-PATHOGEN TREATMENTS
CURRENT APPLICATION NUMBER: US/10/361,208
CURRENT FILING DATE: 2003-02-07

PRIOR FILING DATE: 2002-02-07

PRIOR APPLICATION NUMBER: US 60/355,359

PRIOR APPLICATION NUMBER: US 60/355,022

PRIOR PRILING DATE: 2002-02-07

PRIOR FILING DATE: 2002-02-07

PRIOR FILING DATE: 2002-02-07

PRIOR FILING DATE: 2002-12-10

NUMBER OF SEQ ID NOS: 473

SOFTWARE: PSECSOF OF WINDOWS VETSION 4.0

SEQ ID NO 197

LENGTH: 13
TITLE OF INVENTION: ANTI-PATHOGEN TREATMENTS
FILE REFERENCE: 0050.2041-003
CURRENT APPLICATION NUMBER: US/10/361,208
CURRENT FILING DATE: 2003-02-07
PRIOR APPLICATION NUMBER: US 60/355,359
PRIOR APPLICATION NUMBER: US 60/355,022
PRIOR APPLICATION NUMBER: US 60/355,022
PRIOR FILING DATE: 2002-02-07
PRIOR PILING DATE: 2002-12-10
NUMBER OF SEQ ID NOS: 473
NUMBER OF SEQ ID NOS: 473
LENGTH: 13
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OTHER INFORMATION: partial Hdj-1 sequence
                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: partial Hdj-1 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 83.3°
Lag 5; Conservative
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Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 OEQVSP 7
                                                                                                                                                                                                                                                                                                                                                                        ; NAME/KEY: NON_CONS
; LOCATION: 7-8
US-10-361-208-64
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LOCATION: 7-8
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ORGANISM: unknown
                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: unknown
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US-10-361-208-197
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                                                                                                                   APPLICANT: Homes P.
APPLICANT: Homes P.
APPLICANT: Helezer, James P.
APPLICANT: Potter, M. Daniel
APPLICANT: Potter, M. Daniel
APPLICANT: Potter, M. Daniel
APPLICANT: Potter, M. Daniel
FIREREWENCE: Tony J.
TITLE OF INVENTION: BINDING POLYPEPTIDES AND METHODS BASED THEREON
FILE REPERBENCE: Dyx-025.1 PCT, DYX-025.1 US
CURRENT APPLICATION NUMBER: US/09/932,613
CURRENT FILING DATE: 2001-08-17
NUMBER OF SEQ ID NOS: 458
SOFTWARE: Patentin version 3.1
SEQ ID NO 156
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Pred. No. 1.5e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: BLyS binding polypeptide US-09-932-322-156
                                                                   Sequence 156, Application US/09932613
Publication No. US20030091565A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 64, Application US/10361208
Publication No. US20040009167A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 35.8%;
Best Local Similarity 66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 66.7%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6; Conservative
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Matches

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RESULT 6 US-10-851-637-87

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APPLICANT: Myriad Genetics, Inc.
APPLICANT: Myriad Genetics, Inc.
APPLICANT: Savitz, Kenton
APPLICANT: Savitz, Kenton
APPLICANT: Cavitz, Kenton
APPLICANT: Compositions and Therapeutic Methods for Viral Infection
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
CURRENT APPLICATION NUMBER: US /10/226,007
CURRENT APPLICATION NUMBER: US 60/313,883
PRIOR FILING DATE: 2001-08-21
NUMBER OF SEQ ID NOS: 1673
SOFTWARE: Patentin version 3.1
SEQ ID NO 782
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Myriad Genetics, Inc.
APPLICANT: Myriad Genetics, Inc.
APPLICANT: Morham, Scott
APPLICANT: Abden, Adrian
APPLICANT: Hobden, Adrian
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
FILE REFERENCE: 5005.01
CURRENT APPLICATION NUMBER: US/10/226,007
CURRENT FILING DATE: 2002-11-15
PRIOR FILING DATE: 2001-08-21
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                                                                                                                                                                                                 Sequence 782, Application US/10226007; Publication No. US20030105277A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-226-007-794
. Sequence 794, Application US/10226007
. Publication No. US20030105277A1
. GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 805, Application US/10226007
; Publication No. US20030105277A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human herpesvirus 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Human herpesvirus 4
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SOFTWARE: Patentin version 3.1
SEQ ID NO 794
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Best Local Similarity 50.0
Matches 4; Conservative
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                OVSPYTLL 11
                                                 6 QVTPATIM 13
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Best Local Similarity
4; Conserv?
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NEEPPPPY
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ORGANISM:
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Sequence 87, Application US/10851637

Publication No. US20050015039A1

GENERAL INFORMATION:

APPLICANT: Salzwedel, Karl

APPLICANT: Li, Feng

APPLICANT: Li, Feng

APPLICANT: Allaway, Graham P.

CURRENT FLING DATE: 2004-05-24

PRIOR FILING DATE: 2004-01-29

PRIOR FILING DATE: 2003-08-21

PRIOR FILING DATE: 2003-08-21

PRIOR FILING DATE: 2004-01-29

NUMBER OF SEQ ID NOS: 115

SEQ ID NO 87

LENGTH: 13
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APPLICANT: Salzwedel, Karl
APPLICANT: Salzwedel, Karl
APPLICANT: Li, Feng
APPLICANT: Wild, Carl T.
APPLICANT: Allaway, Graham P.
APPLICANT: Allaway, Graham P.
APPLICANT: Allaway, Graham P.
APPLICANT: Allaway, Graham P.
APPLICANT: Freed, Exic O.
TITLE OF INVENTION: Inhibition of HIV-1 Replication by Distribution of the Processing
TITLE OF INVENTION: Of the Viral Capsid-Spacer Peptide 1 Protein
FILE REFERENCE: 1900.0430003
CURRENT FILING DATE: 2004-05-24
FRIOR PAPLICATION NUMBER: US 60/496,660
FRIOR APPLICATION NUMBER: US 60/496,660
FRIOR APPLICATION NUMBER: US 60/443,180
FRIOR FILING DATE: 2003-08-21
FRIOR PRICATION NUMBER: US 60/443,180
FRIOR FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 115
SOFTWARE PARENTIN Version 3.2
SEQ ID NO 68
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 35.8%; Score 24; DB 17; Length 13; Best Local Similarity 50.0%; Pred. No. 1.5e+03; Matches 4; Conservative 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    h Similarity 50.0%; Pred. No. 1.5e+03; 4; Conservative 3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Mutant SP1 region in HIV-1 NL4-3
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US-10-851-637-88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 88, Application US/10851637
Publication No. US20050015039A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity
Matches 4; Conserva
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5 NEEPPPPY 12
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US-10-226-007-832
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Sequence 824, Application US/10226007

Sequence 824, Application US/10226007

Sequence 824, Application US/10226007

Sequence 824, Application US/10226007

GENERAL INFORMATION:

APPLICANT: Morham, Scott

APPLICANT: Applicant; Kenton

TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection

FILE REFERENCE: 5005.01

CURRENT PPLICATION NUMBER: US/10/226,007

CURRENT FILING DATE: 2002-11-15
                                      APPLICANT: Morham, Scott
APPLICANT: Zavitz, Kenton
APPLICANT: Zavitz, Kenton
APPLICANT: Bodit, Adrian
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
FILE REFERENCE: 5005.01
CURRENT APPLICATION NUMBER: US/10/226,007
CURRENT FILING DATE: 2002-11-15
PRIOR FILING DATE: 2001-08-21
NUMBER OF SEQ ID NOS: 1673
SOFTWARE: Patentin version 3.1
SEQ ID NO 805
LENGTH: 13
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APPLICANT: Morham, Scott
APPLICANT: Zavitz, Kenton
APPLICANT: Hobden, Adrian
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
FILE REFERENCE: 5005.01
CURRENT APPLICATION NUMBER: US/01/226,007
CURRENT FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: US 60/313,883
PRIOR FILING DATE: 2001-08-21
NUMBER OF SEQ ID NOS: 1673
SOFTWARE: Patentin version 3.1
SEQ ID NO 915
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50.0%; Pred. No. 2.2e+03;
trive 1; Mismatches 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Myriad Genetics, Inc.
                    APPLICANT: Myriad Genetics, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Human herpesvirus 4
US-10-226-007-815
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US-10-226-007-805
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Best Local Similarity
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GENERAL INFORMATION:
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APPLICANT: APPLICANT: ACOUTE
APPLICANT: Zavitz, Kenton
APPLICANT: Zavitz, Kenton
APPLICANT: ADDIA ACOUTE
APPLICANT: ADDIA ACOUTE
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
FILE REFERENCE: 5005.01
CURRENT APPLICATION NUMBER: US/10/226,007
CURRENT PILING DATE: 2000-08-21
PRIOR PILING DATE: 2001-08-21
NUMBER OF SEQ ID NOS: 1673
SQFTWARE: PatentIn version 3.1
SQ ID NO 832
LEMOTH: 13
TYPE: PRT
TYPE: PRT
CORGANISM: Human herpesvirus 4
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Sequence 20, Application US/10412897

Sequence 20, Application US/10412897

Publication No. US2003022024A1

GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company

ITILE OF INVENTION: POLYPEPTIDE, BMSNKC_0020/0021

FILE REPERENCE: D0193 NP

CURRENT APPLICATION NUMBER: US/10/412,897

CURRENT PILING DATE: 2003-04-11

PRIOR APPLICATION NUMBER: US. 60/372,745

PRIOR RILING DATE: 2002-04-12

NUMBER OF SEQ ID NOS: 77

SEQ ID NO 20

LENGTH: 13
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Pred. No. 2.2e+03;
1; Mismatches 3; Indels
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Pred. No. 2.2e+03;
1; Mismatches 3;
PRIOR APPLICATION NUMBER: US 60/313,883
PRIOR FILING DATE: 2001-08-21
NUMBER OF SEQ ID NOS: 1673
SOFTWARE: PatentIn version 3.1
SEQ ID NO 824
LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 832, Application US/10226007
Publication No. US20030105277A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Myriad Genetics, Inc.
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50.0%;
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; ORGANISM: Human herpesvirus 4
US-10-226-007-824
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Best Local Similarity 50.0°
....hes 4; Conservative
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CORGANISM: Homo sapiens
US-10-412-897-20
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                        0; Gaps
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Best Local Similarity 100.0%; Pred. No. 2.2e+03; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                 RESULT 15
US-09-338-723A-7
Sequence 7, Application US/09338723A
Patent No. US20020019038A1
GENERAL INFORMATION:
APPLICANT: Huaming, Wang
TILE OF INVENTION: Phenol Oxidizing Enzymes
FILE REFERENCE: GCS61-2
CURRENT APPLICATION NUMBER: US/09/338,723A
CURRENT FILING DATE: 1999-06-23
PRIOR FILING DATE: 1999-06-23
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 7
LENGTH: 13
TYPE: PRT
ORGANISM: Stachybotrys chartarum
US-09-338-723A-7
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Search completed: April 12, 2005, 11:04:24 Job time : 130 secs

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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein April 12, 2005, 10:46:01 ; Search time 42 Seconds (without alignments) 29.781 Million cell updates/sec Run on:

US-09-674-616A-2

1 NOEQVSPYTLLKG 13 Perfect score: Sequence:

BLOSUM62 Scoring table:

Gapop 10.0 , Gapext 0.5

283416 segs, 96216763 residues Searched:

246 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 13 Maximum DB seq length: 13

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	T-cell antigen rec	dipeptidyl-peptida	Ig kappa chain V-I		5	air	1	extracellular lipa	neurotensin [valid	٠	neurotensin - guin	Ig heavy chain CRD	tryptophyllin-13 -		thion	actin 7 - soybean	microbial collagen	glandular kallikre	glutathione transf	T-cell antigen rec	4	tide/a	Id kappa chain V-I	8	T-cell antigen rec	T-cell antigen rec		Ig H chain V-D-J r	T-cell receptor al
ID	847361	B56864	PL0157	S32473	B61458	A61458	UNBO	A44818	A28505	A61067	A53608	. PT0256	A05174	PC1149	A61514	S15755 ·	B26093 .	A54326	B28810	547358	PH1599	PU0038	D61458	E61458	S47362	S47380	B61233	PH1595	PH0786
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collecting duct wa hypothetical prote lymnabFandel - g lymnabFandel - g lymnabFandel - g bradykinin-like pe tubulin beta chain ribosomal protein T-cell receptor be mannose-1-phosphat Ig heavy chain C r Ig heavy chain C r Ig heavy chain C r Ig kappa chain J r epithelial dog all phloroglucinol red hypothetical prote	
IS1905 S36668 S32471 S32472 A61361 S39413 S36887 PH0138 B47415 G37266 D37266 D37267 C47630 A59491 A59453 G83988	
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ALIGNMENTS

T.cell antigen receptor VJ junction beta chain - human C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 05-Nov-1999
C; Accession: S47361
S; Lehner, P.J.
submitted to the EMBL Data Library, August 1994
A; Rescription: Human HLA-A0201 restricted recognition of influenza A is dominated by T cet A; Reference number: S47356
A; Recession: S47361
A; Accession: S47361
A; Residues: 1-13 < LEHA
A; Residues: 1-13 < LEHA
A; Cossa-references: EMBL: Z35685; NID: G527459; PIDN: CAA84754.1; PID: G527460
C; Keywords: T-cell receptor

ô Gape ö Query Match
29.9%; Score 20; DB 2; Length 13; Best Local Similarity 80.0%; Pred. No. 1.6e+03; Matches 4; Conservative 0; Mismatches 1; Indels

4 QVSPY 8 ò 셤

5 OGSPY 9

RESULT 2

dipeptidase IV (EC 3.4.14.5) - bovine (fragment)
C;Species: Bos prinigenius taurus (cattle)
C;Species: Bos prinigenius taurus (cattle)
C;Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 05-Jan-1996
C;Accession: B56864; McGivan, J.D.
Biochim. Biophys. Acta 1145, 105-112, 1993
A;Title: The oligomeric structure of renal aminopeptidase N from bovine brush-border memt A;Reference number: A56864; MUID:93136203; PMID:8093665
A;Reference protein
A;Rolocule 'pye: protein
A;Residues: 1-13 < PLA>
A;Residues: 1-13 < PLA>
A;Residues: 1-13 < PLA>
A;Residues: dipeptidylpeptide hydrolase

Length 13; Query Match
29.9%; Score 20; DB 2; L
Best Local Similarity 37.5%; Pred. No. 1.6e+03;
Matches 3; Conservative 3; Mismatches 2;

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Gaps

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2; Indels

6 SPYTLLKG 13 à

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Gaps

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R;Carraway, R.; Leeman, S.E.
J. Biol. Chem. 250, 1912-1918, 1975
A;Title: The synthesis of neurotensin.
A;Reference number: A92173; MUID:75095679; PMID:1112838
A;Contents: annotation; synthesis
A;Note: a tridecapeptide chemically and pharmacologically identical with the natural pept
                                                                                                                                                                                                                                                                                                 C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 15-Oct-1994 #text_change 16-Aug-1996
C;Accession: A61458; PL0156
E;Broutet, J.C.; Dellagi, K.; Gendron, M.C.; Chevalier, A.; Schmitt, C.; Mihaesco, E.
T;Exp. Mad. 170, 1551-1558, 1989
A;Title: Expression of a public idiotype by human monoclonal IgM directed to myelin-assoc A;Reference number: A61458; MUID:90039128; PMID:2478651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: protein
A;Residues: 1-13 <BRO>
C;Comment: This protein is one of monoclonal IgM reactive with myeloma-associated glycopi
C;Keywords: heterotetramer; immunoglobulin
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C;Date: 18-Dec-1981 #sequence_revision 18-Dec-1981 #text_change 24-Feb-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C.Keywords: neuropeptide; pyroglutamic acid (Gln) #status experimental F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C;Accession: A01420
R;Carraway, R.; Leeman, S.E.
J. Biol. Chem. 250, 1970-1911, 1975
A;Title: The amino acid sequence of a hypothalamic peptide, neurotensin.
A;Reference number: A92172; MUID:75095678; PMID:1167549
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Pred. No. 6e+03;
0; Mismatches 1; Indels
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Pred. No. 3.9e+03;
0; Mismatches 1; Indels
                                      Indels
           Pred. No. 3.9e+03;
); Mismatches 1;
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80.0%; Pies
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Best Local Similarity 75.0%;
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 26.9%;
Best Local Similarity 80.0%;
Matches 4; Conservative
                                         4; Conservative
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             Best Local Similarity
Matches 4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Accession: A61458
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B61458
Ig kappa chain V-I region (BLA) - human (fragment)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 15-Oct-1994 #sequence_revision 15-Oct-1994 #text_change 16-Aug-1996
C;Accession: B61458
R;Brouer, J.C.; Dellagi, K.; Gendron, M.C.; Chevalier, A.; Schmitt, C.; Mihaesco, E.
R;Brouer, J.C.; Dellagi, K.; Gendron, M.C.; Chevalier, A.; Schmitt, C.; Mihaesco, E.
J. Exp. Med. 170, 1551-1558, 1989
A;Title: Expression of a public idiotype by human monoclonal IgM directed to myelin-asschaperence number: A61458; MuID:90039128; PMID:2478651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lymnabramide 3 - great pond snail
C;Species: Lymnaea stagnalis (great pond snail)
C;Species: Lymnaea stagnalis (great pond snail)
C;Species: Lymnaea stagnalis (great pond snail)
C;Accession: S32473
R;Johnsen, A.H.; Rehfeld, J.F.
Bur. J. Biochem. 213, 875-879, 1993
A;Title: Lymnabramides, a new family of neuropeptides from the pond snail, Lymnaea stagn A;Reference number: S32471; MUID:93238777; PMID:8477756
                                                                                                                                                                       R,Brouet, J.C.; Dellagi, K.; Gendron, M.C.; Chevalier, A.; Schmitt, C.; Mihaesco, E. J. Exp. Med. 170, 1551-1558, 1989
A,Title: Expression of a public idiotype by human monoclonal IgM directed to myelin-assed A,Reference number: A61458; MUID:90039128; PMID:2478651
                                                                                                                                                                                                                                                                                                                                                                                                     A)Status: preliminary
A;Molecule type: protein
A;Molecule type: protein
A;Mosidues: 1-13 -8R2.
C;Comment: This protein is one of monoclonal IgM reactive with myelin-associated glycopz
C;Keywords: glycoprotein; heterotetramer; immunoglobulin
                                                                        Ig kappa chain V-II region (anti-myelin-associated glycoprotein, PEC) - human (fragment)
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                                                                                                            C;Species: Homo sapiens (man)
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 07-Feb-1997
C;Accession: PL0157; C61458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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C, Keywords: amidated carboxyl end, neuropeptide
F,13/Modified site: amidated carboxyl end (Phe) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Molecule type: protein
A;Residues: 1-13 <JOH>
A;Cross-references: UNIPROT:P80180; PIDN:AAB26364.1; PID:g299831
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Pred. No. 2.5e+03;
0; Mismatches 1;
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Pred. No. 2.5e+03;
1; Mismatches 3;
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A;Molecule type: protein
A;Residucs: 1-13 <BRO>
C;Keywords: heterotetramer; immunoglobulin
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80.0%;
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Best Local Similarity 42.9
Matches 3; Conservative
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Best Local Similarity 80.0
Matches 4; Conservative
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A, Residues: 1-13 <BRO>
A, Accession: C61458
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Gaps

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Gaps

Query Match

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PT0256
Ig heavy chain CRD3 region (clone 2-115C) - human (fragment)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Accession: PT0256
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and jc
A;Reference number: PT0222; MUID:91108337; PMID:1899102
                                                                                                                                                                                                              neurotensin - guinea pig
C;Species: Cavia porcellus (guinea pig)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tryptophyllin-13 - Rohde's leaf frog
C;Species: Phyllomedusa rohdei (Rohde's leaf frog)
C;Date: 05-Jun-1987 #sequence_revision 05-Jun-1987 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: UNIPROT:P32560
Cs.Superfamily: neurocensis:
C;Keywords: neuropeptide; pyroglutamic acid
F;I/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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Pred. No. 6e+03;
0; Mismatches 1; Indels
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Pred. No. 6e+03;
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R;Montecucchi, P.C.; Gozzini, L.; Erspamer, V
Int. J. Pept. Protein Res. 27, 175-182, 1986
A;Reference number: A05174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: DNA
A;Residues: 1-13 xYAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin
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C, Superfamily: unassigned animal peptides
                                                                                                                                                                                                                                                                                            C,Accession: A53608
K,Shaw, C,; Thim, L.; Conlon, J.M.
FEBS Lett. 2021, 187-191, 1986
A;Title: [Ser(7)]neurotensin: isol
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Best Local Similarity 75.0%;
Matches 3; Conservative
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Best Local Similarity
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A,Status: preliminary
A,Molecule type: protein
A,Residues: 1-13 <SHA>
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                              7 PYTL 10
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                                                                              10 PYIL 13
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Jpn. J. Pharmacol. 44, 455-459, 1987
A;Title: The amino acid sequence of a smooth muscle-contracting peptide from chicken rec
A;Reference number: A28505; MUID:88063566; PMID:3682409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPROT:P13724
A;Experimental source: rectum
C;Comment: The peptide isolated from rectum is identical with chicken neurotensin and ha
C;Superfamily: neurotensin
                           Title: Purification and properties of extracellular lipase from Pseudomonas aeruginosa; Reference number: A44818; MUID:92085040; PMID:1748875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Molecule type: protein
A;Residues: 1-13 <SHA>
A;Cross-references: UMIPROT:P41536
A;Note: this peptide was identified in brain, intestine, and rectum, but not in stomach
C;Superfamily: neurotensin
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C;Species: Rana temporaria (common frog)
C;Species: Rana temporaria (common frog)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C;Accession: A61067
R;Shaw, C.; McKay, D.M.; Halton, D.W.; Thim, L.; Buchanan, K.D.
Regul. Pept. 38, 23-31, 1992
A;Fitle: Isolation and primary structure of an amphibian neurotensin.
A;Reference number: A61067; MUID:92245104; PMID:1574601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neurotensin [validated] - chicken
C;Species: Gallus gallus (chicken)
C;Date: 19-Nov-1988 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
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F;1-13/Product: neurotensin #status experimental <NTS>
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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                                                                                                    A;Status: preliminary; not compared with conceptual translation A;Molecule type: nucleic acid A;Residues: 1-13 <GIL> A;Residues: 1-13 <GIL> A;Cross-references: UNIPROT:Q9LGC7; UNIPROT:P95419 A;Experimental source: strain TE3285 A;Note: sequence extracted from NCBI backbone (NCBIP:70395) C;Superfamily: Pseudomonas triacylglycerol lipase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25.4%; Score 17; DB 2; Length 13; 75.0%; Pred. No. 6e+03;
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Microbiol. 137, 2223-2229, 1991
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Best Local Similarity
Matches 3; Conserv
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Matches 4; Conser
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Matches

8 셤 RESULT 10

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Gaps

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Gaps

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Gjutathione transferase (EC 2.5.1.18), 26k - fluke (Schistosoma japonicum) (fragment)
C;Species: Schistosoma japonicum
C;Species: 15-Oct-1994 #sequence_revision 15-Oct-1994 #text_change 09-Jul-2004
C;Accession: A61514
R;Mitchell, G.F.
R;Mitchell, G.F.
A;Title: Expression of an enzymatically active parasite molecule in Escherichia coli: Schieference number: A61514; MUID:88142994; PMID:327828
                                                                                                                                                                                                                                                                                                                                                                   C; Species: Actinia equina.
C; Species: Actinia equina.
C; Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C; Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
R; Kometsu, S.; Rurukawa, K.; Abe, K.; Hirano, H.; Ueda, M.
Chem. Pharm. Bull. 40, 2873-2875, 1992
A; Title: Isolation and characterization of equinatoxins from the sea anemone Actinia equinate number: PC1149; MUID:93099631; PMID:1361161
A; Reference number: PC1149; MUID:93099631; PMID:1361161
A; Residues: PC1149
C; Keywords: toxin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
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C;Keywords: pyroglutamic acid; skin F;I/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23.9%; Score 16; DB 2; Length 13; 60.0%; Pred. No. 9.3e+03; ive 1; Mismatches 1; Indels
                                                                           Length 13;
                                                                                                                           2; Indels
                                                                                                                                                                                                                                                                                                                                               equinatoxin 1A - sea anemone (Actinia equina) (fragment)
                                                                      25.4%; Score 17; DB 2;
60.0%; Pred. No. 6e+03;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Search completed: April 12, 2005, 10:50:32 Job time: 43 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Accession: A61514
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-13 <MIT>
A;Cross-references: UNIPROT:P08515
C;Keywords: transferase
                                                  Query Match
Best Local Similarity 60.0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 23.9
Best Local Similarity 60.0
Matches 3; Conservative
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Best Local Similarity 50.0
Matches 3; Conservative
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6 YWKIKG 11
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4 NQAEV 8
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein April 12, 2005, 10:46:02 ; Search time 174 Seconds (without alignments) 38.259 Million cell updates/sec Run on:

US-09-674-616A-2 67 Title: Perfect score: Sequence:

1 NQEQUSPYTLLKG 13

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1612378 segs, 512079187 residues Searched:

722 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 13 Maximum DB seq length: 13

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		Description	рошо	P54836 canis famil		P42718 parapolybia	P80180 lymnaea sta		Q51605 plasmid col	Q9rg00 mycoplasma					P41536 rana tempor			Q50476 mycobacteri	hydra	P83647 oryza sativ	-		•		Q9fsa8 silene bacc		٠.					_	Q61cw4 pseudomonas
SUMMAKIES		QI	Q9UEE2	IDHA CANFA	Q6T675	CHEP_PARID	NP3 LYMST	Q14890	Q51605	Q9RG00	FRI2_PEA	NEUT_BUFMA	NEUT CAVPO	NEUT_CHICK	NEUT_RANTE	TY13 PHYRO	Q6S4R5	Q50476	PEDI_HYDAT	PROX ORYSA	SA2A_ONCMY	SA2B_ONCMY	093824	Q9FS94	Q9FSA8	Q9S8N1	ACT7_SOYBN	E121_LITRU	E122_LITRU	UN12_CLOPA	UPS1_UPEIN	Q47693	Q6LCW4
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8	Query	Match	32.8	29.9		28.4	28.4	28.4	28.4	28.4	26.9	25.4	25.4	25.4	25.4	25.4	25.4	25.4	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	22.4	22.4	22.4	22.4	22.4	22.4	22.4
		Score	22	20	20	19	19	19	19	19	18	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15
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mycoplasma mus musculu rattus sp.		lymnaea sta lymnaea sta arthrobotry canis famil	rana pipien rana tempor lactococcus
09rfz4 088176 09qw45	Q9Qy46 P42717 P17232 P81532	P80178 P80179 P83289 P54712	P82848 P56918 P42021
Q9RFZ4 O88176 Q9QW45	Q9QY46 BRK PARID CRBL VESMA MP1 MICOC	NP1_LYMST NP2_LYMST SODM ARTDA SODM CANFA	TEM1_RANPI TEMC_RANTE YPE2_LACLC
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13 13 13	11111 11111	13 13 13	13 13
222 22.4 4.4.4	22 2 2 20 0 0 4 0 0 0	200.0	20.9 20.9
15 15 15	чччч С 4 4 4	4444	4 4 4
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ALIGNMENTS

RESULT 1

	13 AA.		e update)	ion update)				Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	Catarrhini; Hominidae; Homo.			M.C., Abe S.;	/DDBJ databases.				2C677798CB566AB7 CRC64;	OB 2; Length 13;	se 3; Indels 0; Gaps	-			, c
	PRT; 13	Created)	Last sequence	Last annotat	ragment).			, Craniata,				T., Yoshida	EMBL/GenBank				2C677798CBS	Score 22; DB 2;	1; Mismatches				. #99
	PRELIMINARY;	(TrEMBLrel. 13,	(TrEMBLrel. 13,	01-MAY-2000 (TrEMBLrel. 13, Last annotation update)	ERGB transcription factor (Fragment).		ig (Human).	Metazoa; Chordata	Mammalia; Eutheria; Primates;	:9096;	OM N.A.	Obata K., Hiraga H., Nojima T., Yoshida M.C., Abe S.;	MAR-1998) to the 1	EMBL; AB012625; BAA32806.1;	1 1	13 13	13 AA; 1541 MW;	32.8%;	ğ	4 QVSPYTLL 11	: 	מנולנות זק	. adkankana
1 20	Q9UEE2	01-MAY-2000	01-MAY-2000	01-MAY-2000	ERGB transc	Name=FLI1;	Homo sapiens (Human).	Eukaryota;	Mammalia; E	NCBI_TaxID=9606;	SEQUENCE FROM N.A.	Obata K., H	Submitted (EMBL; AB012	NON_TER	NON TER	SEQUENCE	Query Match	Best Local Sim Matches 4;	4 QV	C	n n	RESULT 2 IDHA CANFA
O9UEE2	n a	, E	占	Ŋ	DE	NB	SO	8	ö	ŏ	R G	æ	RL	g	FT	FT	Š	ā	X D	ò	Ę	3	RESULT 2 IDHA CAN

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13 AA. PRT; STANDARD; IDHA CANFA P54836;

01-OCT-1996 (Rel. 34, Created)
01-OCT-1996 (Rel. 34, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
1 socitrate dehydrogense [NAD] subunit alpha, mitochondrial
(RC 1.1.1.41) (Isocitric dehydrogenase) (NAD+-specific ICDH)
(Fragment)

Canis familiaris (Dog). Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Carnivora; Fissipedia; Canidae; Canis. NOSI_TaxID=9615; SEQUENCE

TISSUE=Heart;
MEDLINE=98163340; PubMed=9504812;
Dunn M.J., Corbett J.M., Wheeler C.H.;
"HSC-2DFAGE and the two-dimensional gel electrophoresis database of dog heart proteins.";
Electrophoresis 18:2795-2802(1997).

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"Isolation and sequential analysis of peptides on the venom sac of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7 PYTLLKG 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 PYDRISG 7
                                                                                      Best Local Similarity
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                                                                                                                       10 LLKG 13
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NP3_LYMST
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   CATALYTIC ACTIVITY: Isocitrate + NAD(+) = 2-oxoglutarate + CO(2) +
                       -1-SUBUNTT: Heterooligomer of subunits alpha, beta, and gamma in the apparent ratio of 2:1:1 (By similarity).
-1-SUBCELLIAR LOCATION: Mitochondrial.
-1-SIMILARITY: Belongs to the isocitrate and isopropylmalate dehydrogenases family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Vespoidea; Vespidae; Polistinae; Parapolybia.
                                                                                                                                                                                           Gaps
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                                                                               HSC-2DPÄGE; P54836; DOG.
InterPro; IPR01804; Isodh.
PROSITE; PS00470; IDH IMDH; PARTIAL.
Direct protein sequencing; Mitochondrion; NAD; Oxidoreducta8e;
NON_TER. 13 13
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Mammalia, Butheria, Primates, Catarrhini, Cercopithecidae,
Cercopithecinae, Papio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 13;
                                                                                                                                                                    Score 20; DB 1; Length 13;
Pred. No. 9.2e+03;
2; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Langat D.K., Morales P.J., Fazleabas A.T., Hunt J.S.;
Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AX134094; AXR12067.1; -...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13 AA; 1456 MW; 3768BCEBF608B417 CRC64;
                                                                                                                                               SEQUENCE 13 AA; 1356 MW; 9ABFBC2B2A34B2D1 CRC64;
                                                                                                                                                                                                                                                                                                              05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
MHC class Ib antigen (Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 20; DB 2; 1 Pred. No. 9.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Parapolybia indica.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13 AA.
                                                                                                                                                                                                                                                                                              13 AA
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TISSUE-Venom;
Toki T., Yasuhara T., Nakajima T.;
                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29.9%;
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                                                                                                                                                            Query Match
Best Local Similarity 40..

A; Conservative
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Matches 4; Conservative
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                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                 4 QVSPYTLLKG 13
                                                                                                                                                                                                                                : | ||: |
3 EVQTVTLIPG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Term placenta;
                                                                                                                                                                                                                                                                                                                                                                       Papio anubis anubis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 VSPYTLL 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ::| |||
4 MAPRTLL 10
                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=211508;
                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=31921;
                                                                                                                                                                                                                                                                                                                                                              Name=Paan-AG;
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CHEP PARID
DT CHEP PATTIBLE
DT 01-NOV.
DT 01-NOV.
DE Chemote
OS PATADO
OC BUKATYO
OC NEOPTEI
OX NCBI_T
RP SEQUEN
RC TISSUE
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        요
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Gaps
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Eukaryota, Metazoa; Mollusca; Gastropoda; Pulmonata; Basommatophora;
Lymnaeoidea; Lymnaeidae; Lymnaea.
NCBI_TaxID=6523;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-93238777; PubMed-8477756; Johnsen A.H., Rehfeld J.F.; "LymnaDFamides, a new family of neuropeptides from the pond snail, Lymnaea stagnalis. Clue to cholecystokinin immunoreactivity in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUB=Tracheobronchial mucosa;
Guyonnet-Duperat V., Audie J., Debailleul V., Laine A., Buisine M.
Zouitina-Galiegue S., Pigny P., Degand P., Aubert J., Porchet N.;
"Characterization of the human mucin gene MUC5AC: a consensus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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invertebrates?";
Eur. J. Biochem. 213:875-879(1993).
-- SUBCELLULAR LOCATION: Secreted.
-- SIMILARITY: Related to the cholecystokinin (CCK) family.
PIR, S32473; S32473.
Amidation; Direct protein sequencing; Neuropeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 19; DB 1; Length 13;
Pred. No. 1.4e+04;
1; Mismatches 3; Indels
                                                                                                                                             Length 13;
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                                                                               13 13 Serine amide.
13 AA; 1298 MW; 5C950CE8E39D5873 CRC64;
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Last annotation update)
h
Similarity 100.0%; Pred. No. 1.4e+04;
4; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JUL-1993 (Rel. 26, Created)
01-JUL-1993 (Rel. 26, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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014890;
01-NOV-1996 (TrEMBLrel.
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Homo sapiens (Human).
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Hypothetical protein.
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                                               Query Match
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EMBL; AF162995; AAF15247.1; --
                                                                                                     Gaps
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-07-2003 (TrEMBLrel. 25, Last annotation update)
Hypothetical protein (Fragment).
Mycoplasma capricolum subsp. capricolum.
Bacteria; Firmicutes; Mollicutes; Mycoplasmataceae; Mycoplasma.
                                                                                                                                                                                                                                                                                                                                                      MEDLINE=92293113; PubMed=1603061; Soong B.W., Lu F.M., Chak K.F.; Chareterization of the cea gene of the ColE7 plasmid."; Mol. Gen. 233:177-183(1992).

BMBL, M62409; AAA98055.1; -.

GO; GO:0015643; F:toxin binding; IEA.

GO; GO:0030153; P:bacteriocin immunity; IEA.

InterPro; IPR000290; Colicin_Pyocin.

Pfam; PF01320; Colicin_Pyocin; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 19; DB 2; Length 13;
Pred. No. 1.4e+04;
2; Mismatches 3; Indels
                                                                            28.4%; Score 19; DB 2; Length 13; 42.9%; Pred. No. 1.4e+04; ative 2; Mismatches 2; Indels
cysteine-rich domain for 11p15 mucin genes.";
Biochem. J. 0:0-0(1994).
EMBL, 234280; CAA84034.1; -.
1 1 1 1 1 1 1 1 1 1 SEQÜENCE 13 AA; 1580 MW; 535DF5A5183B7767 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13 13 13
13 AA; 1501 MW; 9E75F892148CB045 CRC64;
                                                                                                                                                                                                                             01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
CeiE7 protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 37.5%;
Matches 3; Conservative 2
                                                                                                                                                                                                                                                                                                              other sequences; plasmids NCBI_TaxID=2450;
                                                                               Query Match
Best Local Similarity 42.9
Matches 3; Conservative
                                                                                                                                                                                                       PRELIMINARY;
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4 KNSISDYT 11
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                                                                                                                           1 NOEQVSP 7
                                                                                                                                                 2 NKNOLPP 8
                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=40479;
                                                                                                                                                                                                                                                                                       Plasmid ColE7.
Plasmid ColE7.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     other plastids.
--- TISSUE SPECIFICITY: Leaves.
--- TISSUE SPECIFICITY: Leaves.
--- A 74, its Mw is: 25.7 kDs.
--- SIMILARITY: Belongs to the ferritin family.
InterPro; IPRO01519; Ferritin.
InterPro; IPRO01519; Ferritin.
PROSITE; PS00540; FERRITIN. 1; PARTIAL.
PROSITE; PS00054; FERRITIN. 2; PARTIAL.
PROSITE; PS50905; FERRITIN. LIKE; PARTIAL.
Chloroplast; Direct protein sequencing; Iron; Iron storage;
                                                                                                                                                                                                                                                                                                                                                       28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
65-JUL-2004 (Rel. 44, Last annotation update)
Peritin 2, chloroplast (Fragment)
Pisum sativum (Garden pea)
Bukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
eurosids 1; Paballes; Fabaceae; Papilionoideae; Vicieae; Pisum.
NCBI_TAXID=3888;
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                                                                                             Gaps
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-!- SUBCELLULAR LOCATION: Chloroplast (inner envelope membrane), and
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Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Bufonidae; Bufo.
NCBI_TaxID=8386;
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                                          Score 19; DB 2; Length 13;
Pred. No. 1.4e+04;
2; Mismatches 2; Indels
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Pred. No. 2.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE, SUBCELLULAR LOCATION, AND TISSUE SPECIFICITY. STRAIN-CV. LAXLON'8 PROGRESS; TISSUE-Leaf; Shingles R., McCarty R.E.; Shingles R., McCarty R.E.; Submitted (SEP-2002) to Swiss-Prot.
0B63638AED35573B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13 AA; 1246 MW; 26C9DC25F334ADC7 CRC64;
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80.0%;
                                             28.4%;
42.9%;
SEQUENCE 13 AA; 1459 MW;
                                                                 Local Similarity 42.9
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Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
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                                                         NCBI_TaxID=9031;
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P41536;
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                                                         SEQUENCE. AND STRINGESTION:

TISSUE-Small intestine;

MEDLINE=99000115; PubMed=9786176; DOI=10.1016/S0196-9781(98)00063-1;

MEDLINE=99000115; PubMed=9786176; DOI=10.1016/S0196-9781(98)00063-1;

MEDLINE=99000115; PubMed=9786176; DOI=10.1016/S0196-9781(98)00063-1;

MEDLINE=99000115; PubMed=9786176; DOI=10.1016/S0196-9781(98)0063-1;

Their contact contact and spasmogenic activity of neurotensin from the toad Bufo marinus.";

Their contact and sequencing peptide. Peptide action is not affected by tetrodotoxin, but is slightly mediated through the relations of acetylcholine.

THE STRICKLULAR LOCATION: Secreted.

THE STRICKLULAR STRICKLULAR LOCATION: Secreted.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cavia porcellus (Guinea pig).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Rodentia, Hystricognathi, Cavidae, Cavia.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
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01-JAN-1990 (Rel. 13, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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01-OCT-1993 (Rel. 27, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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Matches 3; Conservative
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                                          AND SYNTHESIS.
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P32560;
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MEDLINE=88061566; PubMed=3682409;
MEDLINE=88061566; PubMed=3682409;
Iwabuchi H., Komori S., Ohashi H., Kimura S.;
Inthe amino acid sequence of a smooth muscle-contracting peptide from chicken rectum. Identity to chicken neurotensin.";
Inthe Inthe Inthe Inthe Intervention for the neurotensin family.
Inthe 
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Regul. Pept. 38:23-31(1992).

-: FUNCTION: Smooth muscle-contracting peptide.

-: SUBCELLULAR LOCATION: Secreted.

-: TISSUE SPECIFICITY: Identified in brain, intestine, and rectum,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vasoactive
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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Amphibia, Batrachia, Anura, Neobatrachia, Ranoidea, Ranidae, Rana
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 17; DB 1; Length 13; Pred. No. 3.5e+04; 0; Mismatches 1; Indels
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13 AA; 1569 MW; 56A53D69EF410DD3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pyrrolidone carboxylic acid. 4C949E714C410DD3 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   but not in stomach or skin.
-!- SIMILARITY: Belongs to the neurotensin family.
PIR, A61067; A61067.
Direct protein sequencing; Pyrrolidone carboxylic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TY13 PHYRO
TY13 PHYRO
TY13 PHYRO
TY13 PHYRO
TY 13 AA.

AC P04036;
DT 01-NOV-1986 (Rel. 03, Created)
DT 01-NOV-1986 (Rel. 03, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE 05-JUL-2004 (Rel. 44, Last annotation update)
DE TYPECPhyllin-13.
OS Phyllomedusa rohdei (Rohde's leaf frog).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25.4%;
Local Similarity 75.0%;
les 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13 AA; 1608 MW;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; CAmphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae; Phyllomedusanae; Phyllomedusanae; Phyllomedusanae; Phyllomedusanae; Phyllomedusanae; Phyllomedusanae; Phyllomedusanae; Phyllomedusanae; Phyllomedusae; Phyllomedusa
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05-UUL-2004 (TrEMBLrel. 27, Last sequence update)
05-UUL-2004 (TrEMBLrel. 27, Last annotation update)
Alpha tubulin (Framment).
Leishmania chagasi
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 25.4%; Score 17; DB 1; Length 13; Best Local Similarity 60.0%; Pred. No. 3.5e+04; Matches 3; Conservative 0; Mismatches 2; Indels
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Pred. No. 3.5e+04;
1; Mismatches 3; Indels
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STRAIN=MHOM/BR/00/1669;
Purdy J.E., Wilson M.E.;
Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY466450; AAR88132.1; -.
NON TER 1 1 SEQÜENCE 13 AA; 1488 MW; 3F361B0689741B18 CRC64;
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7 EEDVEEY 13
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DT 065-UL-2(
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DE Alpha tul)
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RN [1]
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